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| UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> | | Attorney Docket No. 2323-164 | |
| | | First Inventor Mark T. KEATING | |
| | | Title Mutations in and Genomic Structure of HERG - a Long QT Syndrome Gene | |

17510 U.S. PTO
10/696708
10/30/03

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| <input checked="" type="checkbox"/> Applicant for Published Patent Application: | | University of Utah Research Foundation Salt Lake City, Utah | |
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| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Assistant Commissioner of Patents Box Patent Application Washington, D.C. 20231 |
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| 1. <input checked="" type="checkbox"/> Fee Transmittal Form <i>(Submit an original, and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Applicant claims small entity status. 3. <input checked="" type="checkbox"/> Specification Total pages [92] <i>(preferred arrangement set forth below)</i> - Descriptive title of the invention - Cross references to Related Applications - Statement Regarding Fed sponsored R&D - Reference to sequence listing, a table or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings - Detailed Description - Claims - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) (Total Sheets) [21] 5. <input checked="" type="checkbox"/> Oath or Declaration (Total Pages) [3] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> [Note Box 5 below] i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application. 6. <input checked="" type="checkbox"/> Application Data Sheet. (2 pages) | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program 8. Nucleotide and/or Amino Acid Sequence Submission a. <input checked="" type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input checked="" type="checkbox"/> paper (34 pages) c. <input checked="" type="checkbox"/> Statement verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <i>(when there is an assignee)</i> <input type="checkbox"/> Power of Attorney 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 12. <input type="checkbox"/> Information Disclosure Statement /PTO 1449 <input type="checkbox"/> Copies of IDS Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s). 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). 17. <input type="checkbox"/> Other: |
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17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below or in an application Data Sheet under 37 CFR 1.76:
☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/735,995
 Prior application information: Examiner C.I. Qian Group/Art Unit 1636
 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

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|---|------------|---|---|----------|--------------|
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label 6449 | | | | | |
| Address | | Rothwell, Figg, Ernst & Manbeck Suite 800, 1425 K Street, N.W. | | | |
| City | Washington | State | D.C. | Zip Code | 20005 |
| Country | U.S.A. | Telephone | 202-783-6040 | Fax | 202-783-6031 |
| Name | | Jeffrey L. Ihnen, Reg. No. 28,957 | | | |
| Signature | | | Date 30 October 2003 | | |

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|---|-------------|------------------------|------------------|
| FEE TRANSMITTAL for FY 2003 (Small Entity) | | Complete if Known | |
| | | Application Number | (to be assigned) |
| | | Filing Date | 30 October 2003 |
| | | First Named Inventor | Mark T. KEATING |
| | | Examiner Name | |
| | | Group Art Unit | |
| Total Amount of Payment | (\$ 385.00) | Attorney Docket Number | 2323-164 |

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge additional fees and credit any overpayment to Deposit Account Number 02-2135 in the name of Rothwell, Figg, Ernst & Manbeck

☒ Charge any Additional Fee Required Under 37 CFR 1.16 and 1.17

☒ Applicant claims small entity status.

2. ☐ Payment Enclosed:

☐ Check

☐ Credit Card

FEE CALCULATION
1. FILING FEE

| Fee Code | Fee \$ | Fee Description | Fee Paid |
|----------|--------|------------------------|----------|
| 2001 | 385 | Utility filing fee | [385.00] |
| 2002 | 170 | Design Filing Fee | [] |
| 2003 | 265 | Plant Filing Fee | [] |
| 2004 | 385 | Reissue Filing Fee | [] |
| 2005 | 80 | Provisional Filing Fee | [] |

SUBTOTAL \$ 385.00

2. CLAIMS

| Total Claims | Extra Claims | Fee | Fee Paid |
|--------------------------------------|--------------|------------|----------|
| [] - 20** = [] x | | \$ 9 = [] | |
| Independent Claims [] - 3** = [] x | | 43 = [] | |
| Multiple Dependent Claims + | | 145 = [] | |

**or number previously paid, if greater;

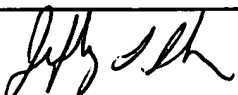
SUBTOTAL \$

FEE CALCULATION (continued)
3. ADDITIONAL FEES

| Fee Code | Fee Paid | Fee Description | Fee Paid |
|----------|----------|--|----------|
| 2051 | 65 | Surcharge - late filing fee or oath | [] |
| 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | [] |
| 1053 | 130 | Non-English specification | [] |
| 1812 | 2,520 | For filing a request for reexamination | [] |
| 1804 | 920 | Requesting publication of SIR prior to Examiner action | [] |
| 1805 | 1,840* | Requesting publication of SIR after Examiner action | [] |
| 2251 | 55 | Extension for reply within first month | [] |
| 2252 | 210 | Extension for reply within second month | [] |
| 2253 | 475 | Extension for reply within third month | [] |
| 2254 | 740 | Extension for reply within fourth month | [] |
| 2255 | 1,005 | Extension for reply within fifth month | [] |
| 2401 | 165 | Notice of Appeal | [] |
| 2402 | 165 | Filing a brief in support of an appeal | [] |
| 2403 | 145 | Request for Oral Hearing | [] |
| 1451 | 1,510 | Petition to institute a public use proceeding | [] |
| 2452 | 55 | Petition to revive -unavoidable | [] |
| 2453 | 475 | Petition to revive - unintentional | [] |
| 2501 | 665 | Utility issue fee (or reissue) | [] |
| 2502 | 240 | Design issue fee | [] |
| 2503 | 320 | Plant issue fee | [] |
| 1460 | 130 | Petitions to the Commissioner | [] |
| 1807 | 50 | Processing fee under 37 CFR 1.17(q) | [] |
| 1806 | 180 | Submission of Information Disclosure Statement | [] |
| 8021 | 40 | Recording each patent assignment per property (times number of properties) | [] |
| 2809 | 385 | Filing a submission after final rejection (37 CFR .129(a)) | [] |
| 2810 | 385 | For each additional invention to be examined (37 CFR 1.129(b)) | [] |
| 2801 | 385 | Request for Continued Examination (RCE) | [] |
| 1802 | 900 | Request for expedited examination of a design application | [] |
| 1504 | 300 | Publication fee for early, voluntary, or normal publication | [] |
| 1505 | 300 | Publication fee for republication | [] |
| 1455 | 200 | Filing an application for patent term adjustment | [] |
| 1456 | 400 | Request for reinstatement of term reduced | [] |
| | | Other fee (specify) | [] |

* Reduced by Basic Filing Fee Paid

SUBTOTAL \$

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| SUBMITTED BY | | Complete (if applicable) | | | |
| NAME AND REG. NUMBER | Jeffrey L. Ihnen, Reg. No. 28,957 | | | | |
| SIGNATURE |  | DATE | 30 OCTOBER 2003 | DEPOSIT ACCT USER ID | 02-2135 |